

CCC"TCGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCTTACC"TAGATATGGCACCCGAGGATA
 CCTAGAGGGCCCCATGCAAGAGAAAGGCCCTGTGTTTCCAGGCAC"TGAGGACCGCAGTCCCTAATTCCTGGG"
 AGTTCCTGAGATCTCAAGGAAAGCAGGGTCAGCGAGGAGGCTGGGGAGAGAGGCAATCC"TAGACCCAAAT
 CTTGGGCC"TGCTGGCTAAAGGGAACAGGAGACCATGACAGCTATGC
 TAAACAT"TAGAAACCATGGCCAGTGAAGAAAGAAATATGGGCCGAGGAAAC"TGTTGGTGTGTGGAGACCCGGGC
 CACAGGCTATGATTTCCACGCCCTGACTTGTGAGGGCTGCAAGGGCTTCTTCAGACGAAACAGTCAAGCAAA
 ACCATTGGTCCCATCTGTCCGTTTGTCTGGAAGGTGTGAGGTACGCAAGGCCCAGAGACGGCCACTGTCTCAG
 CCTGCAGGTTGCAGAAAGTGTCTAAATGTTGGCATGAGGAAGAGCAATGATAC"TGTCAGCAGAAAGCCCTGGC"
 ATTGCGGGAGCCAGACAGGCACAGCGGCCGGGCAGAGAAAGCATCTTTGGCAAC"TGAAATCAGCAGCAGAAAA
 GAAC"TGGLCCAGATCC"TCCTGGGGGCCACACTCGCCATGTGGGCCCATTTGTTGACCCAGTTTGTGTGCAGT
 TCAAGCTCCAGCC"ATCTGTGTTTCATGCATCACCGGCTTTCCAGCCTCGGGGCCCCGTTGTGCTCTGCT
 CACACACTTTGCAGATATCAACACAGTTTATGTTGCAACAGATCATCAAGTTACCAAGGATCTGCCCCGTCT
 TCCGGGTCCTAACCATGAGGAGCACAGATCTCCCTTCTCAAGGGAGCGGCTGTGGAAAAATATTGCATATCT
 CACTCAACACTACGTTCTGTCTTCAACACAGAGAAATTTCTTCTGTGGGCTCTTTTGCTACAAAGATGGAGGA
 CGCAGTCCATGCAGGGTTCCAGTACAGATTTTGGAGTCTGATCTCCACTTCCATATAAAAACCTTGAAAAAGGA
 CTGCATCTCCAGGAGCCTGAGTATGTGCTCATGGCTGCCACGGCCCTTTCTCCCTTGGTTTCTGTATGG
 AAAGCTGATGGGCTGTGGCTGACCTCCGGAGTATAAACAAATGCATACCTCTATGAACTTCAGCGCTTG
 GAGGAAC"TGTTCTGTATGACCGCCGCTGTCTGGGGAGATTTGCAGTTGAGGCCCAGGCTTGCATCTCTTCC
 CCAGACCCCAAGGGATACACTGGGCTGGAAAGGGTACAGCGCTGGACCCCAACACAGCAGCAGAGGCTTGG
 GAGTGGCAANTGAATGCTGAACAGT (SEQ ID NO:1)

MTAMLTLETMASEEEYGPRNCVCGDRATGYHFIHALTCEGCKGF
 FRRTVSKTIGPICPFAGRCEVSKAQRRIHCPACRLQKCLNVGMRKDM
 ILSAEALALRRARQAQRRRAEKASLQNLNQCKELVQILLGAHTRHVG
 PLFDQFVQFKPPAYLFMHIRPFQPRGPVLPPLTHFADINTFMVQQHK
 FTKDLPLFRSLTMEDQISLLKGAAVEILHISLNTTFCLQTENFFCGPLC
 YKMEDAVHIAGFQYEFLESILHIFHKNLKLGLHLEPEYVLMMAATA
 LFSPGFCMQS (SEQ ID NO:2)

FIG. 1

Construct

GI Number(s): 2267577

Gene Family: Nuclear Hormone Receptor

Gene
Subfamily: Orphan NHR

Gene Sequence: full-length cDNA, Mouse

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

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CCCTCGACCTCGAGATCCATTGTGCTCTAAAGCAGAGTCTGGGTCCTACCTACATATGGC
ACCGAGGATACCTAGAGGCCCCCATGCAAGAGAAGGCCCTTGTTTTCCAGGCACTGAGGAC
CGCAGTCCCTAATTCCTGGCAGTTCCCTGAGATCTCAAGGAAAGCAGGGTCAGCGAGGAGG
CCTGGGGAGAGGAGGCATCCTACACCCCAATCTTGTGGCCTGCTGCCTAAGGGAACAGGA
GACCATGACAGCTATGCTAACACTAGAACCCATCCTCCAGTCTAGAGAGATATGGGCGGAG
GAAGTGTGTGTGTGTGTGGAGACGGGGCCACAGGCTATCATTTCCAGAGCCCTTGTGGA
GGGCTGCAAGGGGCTTCAGAGGAGAGTCAAGCAAAAGCATTGCTCCATCTGTCCCTT
TCTCTGAGGTGTGAGTTCAGCAAGGGGCGAGAGAGGCCACTGTCCAGCTGTGAGGTGCA
GAAATGTCTAAATGTTGGCATGAGGAAAGACATGATACTGTCAGCAGAAGCCCTGGCATT
GCGGCGAGCCAGACAGGCAAGCGGGGGGCGAGAGAAAGCATCTTGCAACTGAATCAGCA
GCAGAAAGAACTGGTCCAGATCCTCCTGGGGGGCCACACTCGGCATGTGGGCCCCATTGTT
TGACCACTTGTGTGAGTTCAGGCTCCTCAGCCTATCTGTTTCATGCATCACCGGCCCTTTCCA
GCCTCGGGGGCCCCGTGTTGCTCTGTCTCACACACTTTGCAGATATCAACACGTTTATGGT
GCAACAGATCATCAAGTTCACCAAGGATCTGCCGCTCTTCCGGTCCCTAACCATGGAGGA
CCAGATCTCCCTTCTCAAGGGAGCGGCTGTGGAAATATTGCATATCTCACTCAACACTAC
GTTCTGTCTTCAACAGAGAATTTCTTCTGTGGGCCTCTTTGCTACAAGATGGAGGAGCGC
AGTCCATGCAGGGTTCCAGTACGAGTTTTTGGAGTCGATCCTCCACTTCCATAAAAAACCT
GAAAGGACTGCATCTCCAGGAGCCTGAGTATGTGCTCATGGCTGCCACGGCCCTCTTCTC
CCCTGCTTTCTGTATGCAAGCTGATGGGCCTGCTGGCTGACCTCCGGAGTATAAACAAT
CCATACTCCTATGAAGTTCAGGCTTGGAGGAAGTGTCTGCTATGACGCGGCTGCTCGGG
GAGATTTGCAGTTGAGGCCCCAGGCTTGCATCCTTTCCCCAGACCCCCAGGGATACACTGG
CCTGGAAAGGGTACAGCGCTGGACCCACACAGCAGAAGGAGCTTGGGAGTGGCAATGAA
ATGCTGAACAGT
    
```

Gene Sequence
Structure *

282 bp

Sequence Deleted

403 bp

Size of full-length
cDNA: 1332 bp

FIG. 2A

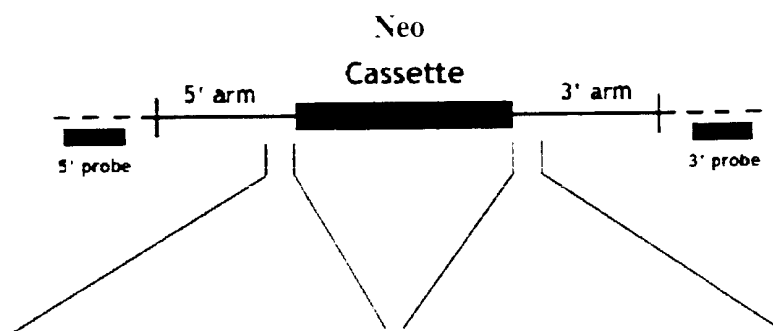
Targeting Vector* (genomic sequence)

Construct Number: 138

Arm Length:

5': 3.5 kb

3': 1.9 kb



————— Targeting Vector
 - - - - - Endogenous Locus

* Not drawn to scale

5' > TTGGAGGGCCAGAGACAAAAAG
 CAACATTTTTCCTTTTAAATGTCT
 CAGTGCTGGGGAGCCCGGTGTGAG
 GCTGGGCACTCTTGGGAAGAGATT
 CTGTASAGGAGAGAGAAGAGATC
 CTATGGGCCAGTGTCTATTCTCAA
 CTCTCTCCACATTCAGGAGACCAT
 GAGAGCTATGTAAACA:TAGAAAC
 CATGGCCAGTG<3'

(SEQ ID NO. 3)

5' > GGTCCCATCTGTCCGTTTGT
 GGAAGGTGTGAGGTGAGCAAGGCC
 CAGAGACGCCACTGTCCAGCCTGC
 AGGTTTCAGAAAGTGTCTAAATGTT
 GGCATGAGGAAAGACAGTGAATTG
 GTCCCTACCGTTCCAGGAGTCCAT
 TGGTGTCTCTGTCTTTTGTTCAG
 GTTCCACAGCAGGCAGAGTGAGC
 TGTGGAACCC<3'

(SEQ ID NO. 4)

FIG. 2B

necropsy - spleen weight/body weight

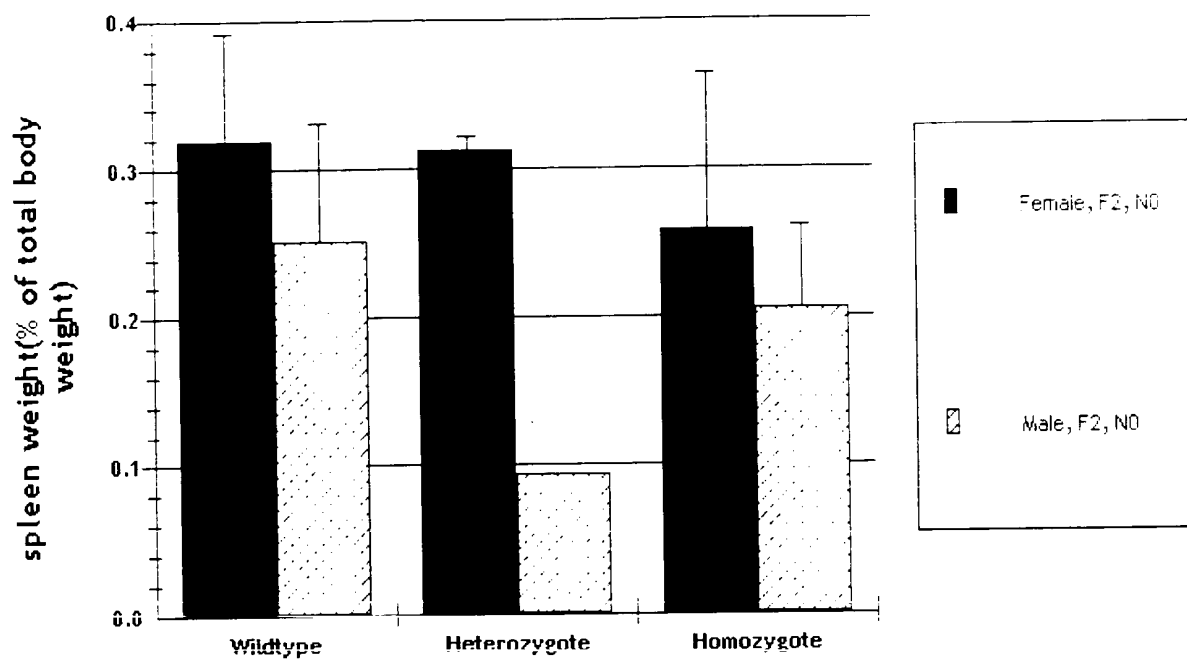


FIG. 3

necropsy - thymus weight/body weight

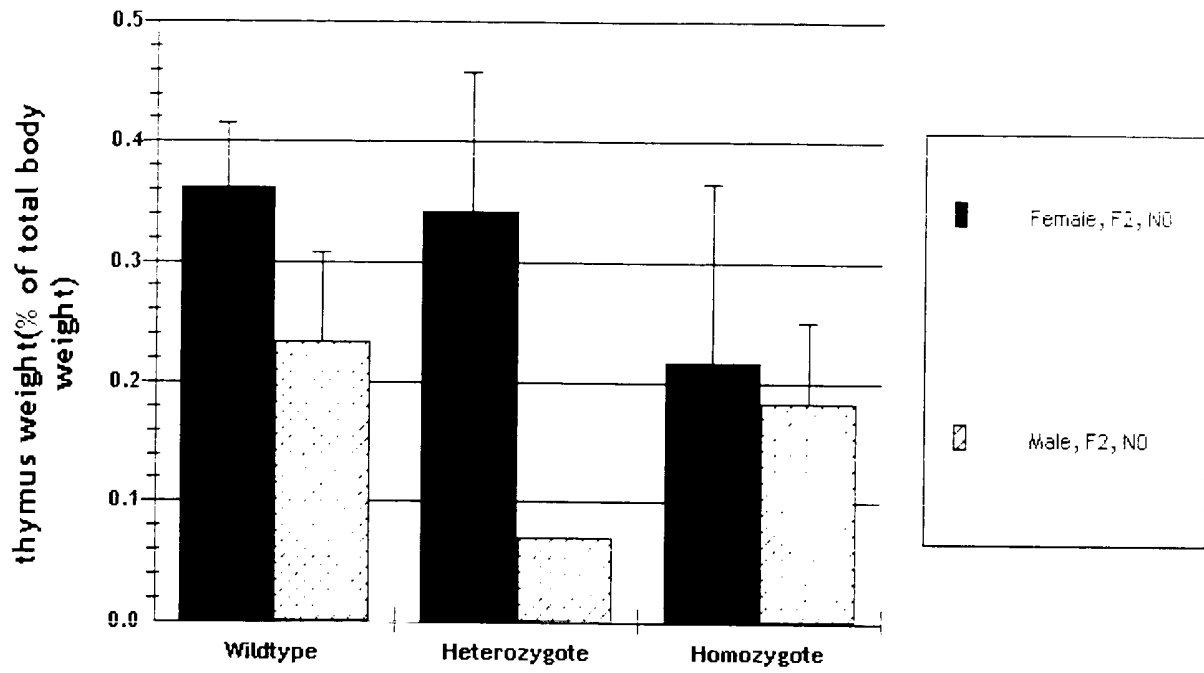


FIG. 4